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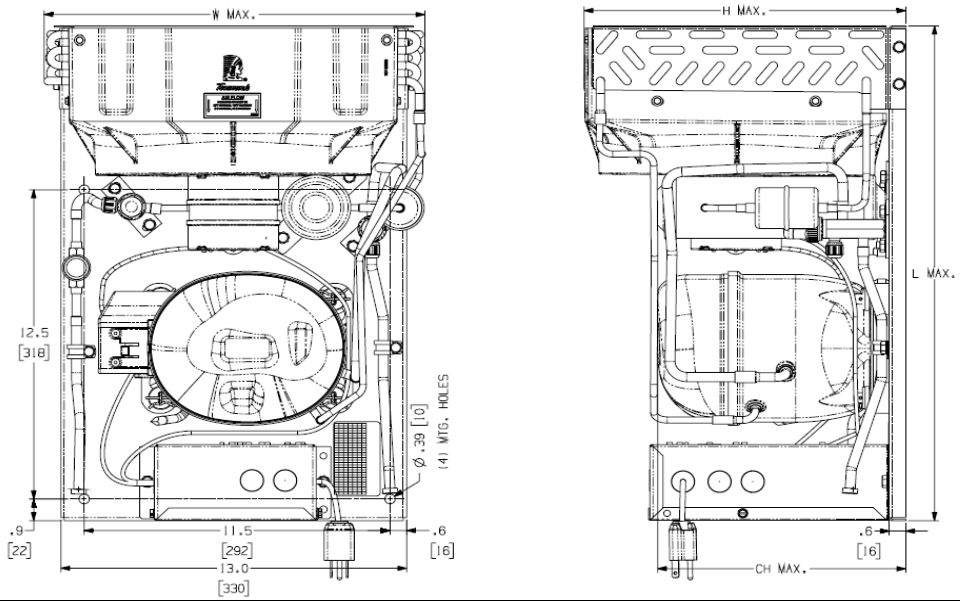
Celseon® Air Cooled Condensing Unit

Model: AE4470Z-AA3CD*
BoM: 2G229- R-404A 1/2 HP**



Model	Dimensions, inches				Line Connection*		Pumpdown	Air	Oil Ch	Gr. Wt.
	L	W	H	CH	Suction	Liquid	90 °F 90%	SCFM	Oz.	Lbs.
AE4470Z-AA3CDA	20.0	14.3	12.1	9.3	3/8” S	1/4” S	N/A	270	9.5	45
AE4470Z-AA3CDG					3/8” S	3/8” S	2.7 lbs			47
AE4470Z-AA3CDH					3/8” S	3/8” S	N/A			45
AE4470Z-AA3CDK					3/8” S	1/4” S				45
AE4470Z-AA3CDC					3/8” S	3/8” S	2.7 lbs			47
AE4470Z-AA3CDS					3/8” S	3/8” S	N/A			45
AE4470Z-AA3CDJ					3/8” S	3/8” S	2.7 lbs			47
AE4470Z-AA3CDP					3/8” S	3/8” S	2.7 lbs			47

* F = Flare, S = Solder, RF or RS = Rotolock with Flare or Solder Connections, C = Compression Fitting
Factory charge: 20 PSIG Nitrogen – **MUST BE EVACUATED**

		Ambient Temperatures											
Evaporator T,		80°F			90°F			100°F			110°F		
°F	PSIG	BTUH	Watts	Cond T	BTUH	Watts	Cond T	BTUH	Watts	Cond T	BTUH	Watts	Cond T
5	39.0	3824	742	102	3453	762	111	3094	782	120	2743	803	128
10	43.9	4217	782	104	3811	804	113	3416	827	122	3029	849	130
15	49.8	4625	821	107	4182	846	115	3749	871	124	3325	896	132
20	56.1	5043	861	109	4561	888	118	4090	916	126	3626	943	135
25	62.9	5468	901	112	4945	931	120	4432	961	129	3926	991	137
30	70.2	5892	941	115	5328	973	123	4772	1006	131	4221	1038	139
35	77.9	6312	981	117	5704	1017	125	5104	1051	133	---	---	---
40	87.0	6722	1022	120	6069	1060	128	5421	1097	136	---	---	---
45	95.1	7114	1063	123	6414	1103	130	5718	1142	138	---	---	---

60 Hz Performance

Return gas temp 40°F below 20°F evaporator,
and 65°F above 20° evap, 5°F sub cooling

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Specifications/ Parts:

Unit Model	**AE4470Z-AA3CDA**
Unit Bill of Material	**2G229-09**
Refrigeration Range	5° F to 45° F
Design Pressure Low	181
Design Pressure High	450
Nominal Volts-Hz-Ph	115-60-1
Voltage Range	103-127
Min. Circuit Ampacity	12.1
Max. Fuse Size (amps)	20
Compressor Model	AE4470Z-AA3C
Comp. Bill of Material	AE-1184-E
Compressor RLA/LRA	9/48
Overload	External
Relay	820-10055
Run Capacitor	85PR370F17
Run Capacitor Rating	35MFD 370V(M) VDE
Start Capacitor	85PS165C99
Start Capacitor Rating	270-324 MFD 165V
Fan Motor	810-10003
Fan Motor RLA	.85
Fan Blade	515-10003
Fan Shroud/Guard Combo	707-00005
Condenser	506-10008
Unit Drawing	DGU1972-01
Wiring Diagram	91266-02
Replacement Kit: Relay	K71-52
Replacement Kit: O/L	K90-72

Unit Model	**AE4470Z-AA3CDG**
Unit Bill of Material	**2G229-19**
Receiver Tank	510-10000
Liquid Valve	56659
Suction Valve	56659
Unit Model	**AE4470Z-AA3CDH**
Unit Bill of Material	**2G229-29**
Liquid Valve	56659
Suction Valve	56659
Unit Model	**AE4470Z-AA3CDK**
Unit Bill of Material	**2G229-39**
Power Cord	85106-14
Unit Model	**AE4470Z-AA3CDC**
Unit Bill of Material	**2G229-59**
Receiver Tank	510-10000
Liquid Valve	56659
Suction Valve	56659
Power Cord	85106-14
Unit Model	**AE4470Z-AA3CDS**
Unit Bill of Material	**2G229-69**
Liquid Valve	56659
Suction Valve	56659
Power Cord	85106-14
Unit Model	**AE4470Z-AA3CDJ**
Unit Bill of Material	**2G229-79**
Receiver Tank	510-10000
Liquid Valve	56659
Suction Valve	56659
Filter Drier	71116
Sight Glass	70084
Unit Model	**AE4470Z-AA3CDP**
Unit Bill of Material	**2G229-89**
Receiver Tank	510-10000
Liquid Valve	56659
Suction Valve	56659
Power Cord	85106-14
Filter Drier	71116
Sight Glass	70084

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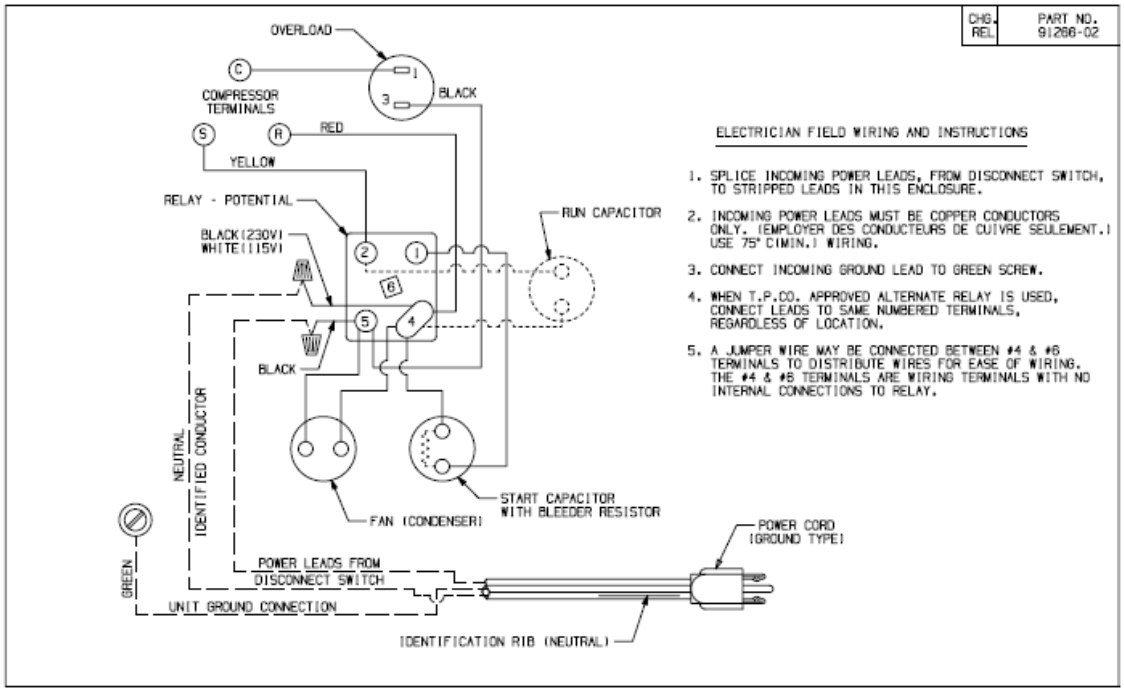
Electrical Diagram Page 3


CHG. REL
PART NO. 91266-02
OVERLOAD
C
COMPRESSOR TERMINALS
S
R
RED
YELLOW
BLACK
RELAY - POTENTIAL
BLACK(230V) WHITE(115V)
RUN CAPACITOR
BLACK
NEUTRAL
IDENTIFIED CONDUCTOR
FAN (CONDENSER)
START CAPACITOR WITH BLEEDER RESISTOR
POWER CORD (GROUND TYPE)
GREEN
POWER LEADS FROM DISCONNECT SWITCH
UNIT GROUND CONNECTION
IDENTIFICATION RIB (NEUTRAL)
ELECTRICIAN FIELD WIRING AND INSTRUCTIONS
1. SPLICE INCOMING POWER LEADS, FROM DISCONNECT SWITCH, TO STRIPPED LEADS IN THIS ENCLOSURE.
2. INCOMING POWER LEADS MUST BE COPPER CONDUCTORS ONLY. (EMPLOYER DES CONDUCTEURS DE CUIVRE SEULEMENT.) USE 75° C(MIN.) WIRING.
3. CONNECT INCOMING GROUND LEAD TO GREEN SCREW.
4. WHEN T.P.CO. APPROVED ALTERNATE RELAY IS USED, CONNECT LEADS TO SAME NUMBERED TERMINALS, REGARDLESS OF LOCATION.
5. A JUMPER WIRE MAY BE CONNECTED BETWEEN #4 & #6 TERMINALS TO DISTRIBUTE WIRES FOR EASE OF WIRING. THE #4 & #6 TERMINALS ARE WIRING TERMINALS WITH NO INTERNAL CONNECTIONS TO RELAY.